



# Molecular Biology Cell Culture Components

CATALOG NUMBER

821237 **OLIGO (dC)-ECOR I** 2 µg  
 5'-TGAATTCGGATCCCC  
 CCCCCCCC-3'.  
 This oligonucleotide is used to prime the synthesis of a second strand when the first strand has been tailed with oligo d(G). After repair and if the first strand has been primed using the oligo d(T)-Eco RI.

821338 **OLIGO (dG)-ECOR I** 2 µg  
 5'-GTGAATTCGTCGAC  
 GGGGGGGGGG-3'.  
 This primer is an alternative to the oligo d(C)-Eco RI primer allowing tailing of the first strand with oligo d(C). Additionally, the Bam HI site is replaced by a Sal I site.

821339 **OLIGO (dT)-ECOR I** 2 µg  
 5'-TGAATCTTTTTTTTTTTTTTTT-3'.  
 This primer is used in place of oligo d(T) in the first strand synthesis reaction when making cDNA. On completion of the second strand an Eco RI site is present at the end of the molecule.  
 All oligonucleotides are supplied in aqueous solutions in 10 mM tris HCl, pH 8.0, 1 mM EDTA at a concentration of 1 µg/ml.

821232 **SP6 PRIMER** 2 µg  
 5'-ACCTTATGTATCATAACAT-3'.  
 The SP6 primer hybridizes to part of the SP6 promoter found in many recently developed transcription vectors. It allows dideoxy sequencing of the transcribed insert DNA in such vectors.

153467 **SP6 PROMOTER PRIMER, 17-MER** 3 µg  
 0-5°C 5'...ATTTAGGTGACACTATA...3'

821233 **T3 PRIMER** 2 µg  
 T3 primer is complementary to part of the T3 promoter and is used to sequence part of the insert DNA in transcription vectors containing the T3 promoter.

821234 **T7 PRIMER** 2 µg  
 5'-CTCACTATAGGGAGACC-3'. This primer is complementary to conserved sequences present in T7 promoters and permits dideoxy sequencing of DNA in transcription vectors containing T7 promoters.

153468 **T7 PROMOTER PRIMER, 17-MER** 3 µg  
 0-5°C 5'...TAATACGACTCACTATA...3'

## MOLECULAR BIOLOGY CELL CULTURE COMPONENTS

194021 **AGAR, Bacteriological** 250 g  
 RT [9002-18-0] 1 kg  
**Molecular Biology Reagent**  
 Specially purified for use in preparing solid culture media for microbiological and bacteriological applications. Naturally occurring impurities have been reduced to a minimum.

194022 **AGAR** 250 g  
 RT [9002-18-0] 1 kg  
**Molecular Biology Reagent**  
 Powder  
 Suitable as a component in culture media for molecular genetics.

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194023 **D-(-)-ARABINOSE** 25 g  
 RT [28697-53-2] 100 g  
**Molecular Biology Reagent**  
**Purity: 99%**  
 Suitable as a culture media component.  
 C<sub>5</sub>H<sub>10</sub>O<sub>5</sub> MW 150.1

194028 **2-DEOXY-D-GLUCOSE** 250 mg  
 RT [154-17-6] 1 g  
 White crystals 5 g  
**Purity: 99%**  
 For use as a culture media component for molecular genetics.  
 C<sub>6</sub>H<sub>12</sub>O<sub>5</sub> MW 164.2

194024 **D-(+)-GLUCOSE** 250 g  
 RT [50-99-7] 1 kg  
 (Dextrose)  
**Molecular Biology Reagent**  
 Ideal as a culture media component.  
 C<sub>6</sub>H<sub>12</sub>O<sub>6</sub> MW 180.2

193996 **GLYCEROL** 100 ml  
 RT [56-81-5] 500 ml  
**Molecular Biology Reagent** 1 liter  
**Purity: 99+%**  
 Heavy metals (Pb): <5 ppm  
 No detectable DNase, RNase, or protease.  
 Prevents back-diffusion and protein samples into the buffer.  
 C<sub>3</sub>H<sub>8</sub>O<sub>3</sub> MW 92.09

194025 **HEMIN** 1 g  
 0-5°C [15489-47-1] 5 g  
 (Hemin Chloride)  
**Molecular Biology Reagent**Source: Bovine  
 Ideal for use in culture media for molecular genetics.  
 C<sub>34</sub>H<sub>32</sub>ClFeN<sub>4</sub>O<sub>4</sub> MW 652

102040 **INDOLE-3-ACRYLIC ACID** 1 g  
 RT [1204-06-4] 5 g  
**Crystalline** 10 g  
 Light yellow crystals.  
 A metabolite of tryptophan.  
 C<sub>11</sub>H<sub>9</sub>NO<sub>2</sub> MW 187.2

194029 **ISOPROPYL-β-D-THIOGALACTOPYRANOSIDE** 100 mg  
 0°C [367-93-1] 250 mg  
 (Isopropyl-β-D-Thiogalactoside; IPTG) 500 mg  
**Molecular Biology Reagent** 1 g  
**Purity: >99%** 5 g  
 Cell culture media component for use in molecular 10 g  
 genetics.  
 β-Galactoside inducer.  
 C<sub>9</sub>H<sub>18</sub>O<sub>5</sub>S MW 238.3

194026 **β-NICOTINAMIDE ADENINE DINUCLEOTIDE** 500 mg  
 0°C [53-84-9] 1 g  
 (β-NAD)  
**Molecular Biology Reagent**  
**Purity: ~99%**  
 For use as a culture media component for molecular genetics. Chromatographically purified to remove trace inhibitors.  
 C<sub>21</sub>H<sub>27</sub>N<sub>7</sub>O<sub>14</sub>P<sub>2</sub> MW 663.4

Molecular Biology

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**194030** **o-NITROPHENYL-β-D-GALACTOPYRANOSIDE** 250 mg  
0°C [369-07-3] 500 mg  
(o-Nitrophenyl-β-D-galactoside)  
**Molecular Biology Reagent** 1 g  
**Crystalline** 5 g  
25 g  
Cell culture component for molecular genetics. Substrate  
for β-galactosidase  
C<sub>12</sub>H<sub>15</sub>NO<sub>8</sub> MW 301.3

**102477** **o-NITROPHENYL-1-THIO-β-D-GALACTOPYRANOSIDE** 25 mg  
0°C [1158-17-4] 100 mg  
**Crystalline** 250 mg  
C<sub>12</sub>H<sub>15</sub>NO<sub>7</sub>S MW 317.3

**103303** **YEAST EXTRACT POWDER** 100 g  
0-5°C A vacuum dried extract concentrate of Baker's yeast 500 g  
containing the B-complex factors of approximately three 1 kg  
times its weight of ordinary dry yeast.

**194027** **YEAST EXTRACT** 250 g  
0-5°C [8013-01-2] 1 kg  
**Molecular Biology Reagent**  
A vacuum dried extract concentrate of Baker's yeast  
containing the B-complex factors of approximately three  
times its weight of ordinary dry yeast. An alternative to  
beef extract for general bacteriological use.

## Antibiotics

**194199** **AMPICILLIN** 20 mg  
0-5°C [69-52-3] 50 mg  
**Sodium Salt**  
**γ-Irradiated**  
**Molecular Biology Reagent**  
Inhibits cell wall biosynthesis.  
C<sub>16</sub>H<sub>18</sub>N<sub>3</sub>O<sub>4</sub>Na MW 371.4

**194787** **CHLORAMPHENICOL** 10 mg  
RT [56-75-7] 20 mg  
(D(-)-threo-2,2-Dichloro-N-[β-hydroxy-  
α-(hydroxymethyl)-β-(4-nitro-  
phenyl)ethylacetamide]  
**γ-Irradiated**  
**Molecular Biology Reagent**  
Inhibitor of translation on the 50S subunit at the  
peptidyltransferase step.  
C<sub>11</sub>H<sub>12</sub>Cl<sub>2</sub>N<sub>2</sub>O<sub>5</sub> MW 323.1

**194788** **D-CYCLOSERINE** 200 mg  
0°C [68-41-7]  
(D-4-Amino-3-isoxazolidinone)  
**γ-Irradiated**  
**Molecular Biology Reagent**  
Inhibits cell wall synthesis.  
C<sub>3</sub>H<sub>6</sub>N<sub>2</sub>O<sub>2</sub> MW 102.1

**194789** **GENTAMICIN SULFATE** 15 mg  
0-5°C [1405-41-0]  
(Gentamycin Sulfate)  
**γ-Irradiated**  
**Molecular Biology Reagent**  
Inhibits protein synthesis.  
**Potency:** Approx. 600 micrograms gentamicin/mg.

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**194793** **KANAMYCIN** 25 mg  
0°C [70560-51-9] 50 mg  
From *Streptomyces kanamyceticus*  
**γ-Irradiated**  
**Molecular Biology Reagent**  
**Monosulfate Salt**  
Binds to the 70S subunit; inhibits translocation; elicits  
coding errors.  
**Activity:** Approx. 735 μg/mg  
Acts as an inhibitor of protein biosynthesis by producing a  
misreading of the 70s-ribosome.  
C<sub>18</sub>H<sub>36</sub>N<sub>4</sub>O<sub>11</sub> • H<sub>2</sub>SO<sub>4</sub> MW 582.6

**194794** **NALIDIXIC ACID** 15 mg  
0°C [3374-05-8]  
(1-Ethyl-1,4-dihydro-7-methyl-4-oxo-1,8-naphthyridine-3-  
carboxylic acid)  
**Molecular Biology Reagent**  
**γ-Irradiated**  
**Sodium Salt**  
DNA synthesis inhibitor.  
C<sub>12</sub>H<sub>11</sub>N<sub>2</sub>O<sub>3</sub>Na MW 254.2

**194795** **RIFAMPIN** 150 mg  
0°C [13294-46-1]  
(Rifamycin AMP; Rifampicin)  
**γ-Irradiated**  
**Molecular Biology Reagent**  
Specifically inhibits DNA-dependent bacterial RNA  
Polymerase. Mammalian RNA polymerase is not affected.  
C<sub>43</sub>H<sub>58</sub>N<sub>4</sub>O<sub>12</sub> MW 823

**194796** **SPECTINOMYCIN** 100 mg  
0-5°C [1695-77-8]  
(Actinospectacin, M141)  
**γ-Irradiated**  
**Molecular Biology Reagent**  
**Dihydrochloride**  
Inhibits protein synthesis through peptidyl tRNA  
translocation interference.  
C<sub>14</sub>H<sub>24</sub>N<sub>2</sub>O<sub>7</sub> • 2HCl MW 405.3

**194797** **STREPTOMYCIN** 25 mg  
0-5°C [3810-74-0] 50 mg  
**γ-Irradiated**  
**Molecular Biology Reagent**  
**Sulfate Salt**  
Inhibits initiation and causes misreading of rRNA inhibiting  
protein synthesis.  
C<sub>42</sub>H<sub>84</sub>N<sub>14</sub>O<sub>36</sub>S<sub>3</sub> MW 1457.4

**194798** **TETRACYCLINE** 10 mg  
0°C [64-75-5] 20 mg  
**γ-Irradiated**  
**Molecular Biology Reagent**  
**Hydrochloride**  
Prevents protein synthesis by inhibiting aminoacyl-tRNA  
binding to ribosomes.  
**Purity: >98%**  
C<sub>22</sub>H<sub>24</sub>N<sub>2</sub>O<sub>8</sub> • HCl MW 480.9